

P.#3

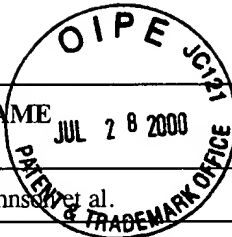
Form PTO-1449 (modified)	ATTY. DOCKET NO. THOX:0021--1/FLE (PA060-US)	SERIAL NO. 09/468,471
List of Patents and Publications For Applicant's Information Disclosure Statement	APPLICANT Vincent Divino, Jr. et al.	
(Use several sheets if necessary)	FILING DATE December 21, 1999	GROUP 3762



U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
JB	.	2,474,665	06/28/49	Guarino	128	214	02/26/46
	.	3,142,296	07/28/64	Love	128	214	05/31/62
	.	3,437,450	04/08/69	Greenwood	23	285.5	01/04/65
	.	3,512,517	05/19/70	Kadish et al.	128	2	11/30/64
	.	4,041,180	08/09/77	Wilson	426	11	03/05/76
	.	4,317,731	03/02/82	Roberts, Jr. et al.	210	741	03/27/78
	.	4,442,843	04/17/84	Rasor et al.	128	660	11/17/81
	.	4,466,804	08/21/84	Hino	604	4	09/24/81
	.	4,493,692	01/15/85	Reed	604	4	09/29/82
	.	4,596,210	06/24/86	Schmidtke	123	1 A	08/31/83
	.	4,657,756	04/14/87	Rasor et al.	424	9	09/08/83
	.	4,664,680	05/12/87	Weber	55	48	04/07/86
	.	4,681,119	07/21/87	Rasor et al.	128	660	04/22/86
	.	4,769,241	09/06/88	Heldebrant et al.	424	161	09/23/86
	.	4,828,543	05/09/89	Weiss et al.	604	4	04/03/86
	.	4,871,450	10/03/89	Goodrich et al.	210	151	08/20/87
	.	4,874,509	10/17/89	Bullock	210	169	04/24/87
	.	4,919,895	04/24/90	Heldebrant et al.	422	129	06/18/87
	.	4,973,558	11/27/90	Wilson et al.	435	240.242	04/28/88
	.	5,006,352	04/09/91	Zelenák née Zoltai et al.	426	67	02/26/88
	.	5,084,011	01/28/92	Grady	604	24	01/25/90
	.	5,086,620	02/11/92	Spears	62	51.1	02/14/91
	.	5,261,875	11/16/93	Spears	604	24	01/08/92

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EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
JB	.	5,322,500	06/21/94	Johnson et al.	604	4	03/04/93
	.	5,407,426	04/18/95	Spears	4	24	11/15/93
	.	5,569,180	10/29/96	Spears	604	24	07/12/94
	.	5,599,296	02/04/97	Spears	604	26	12/09/94
	.	5,693,017	12/02/97	Spears et al.	604	132	06/07/95
	.	5,695,717	12/09/97	Polaschegg et al.	422	48	11/15/96
	.	5,709,654	01/20/98	Klatz et al.	604	24	06/07/95
	.	5,725,492	03/10/98	Igo et al.	604	4	03/04/96
	!	5,730,330	03/24/98	Reading	222	113	07/31/95
	.	5,730,698	03/24/98	Fischell et al.	600	3	05/09/95
	.	5,730,935	03/24/98	Spears	422	44	06/07/95
	.	5,735,934	04/07/98	Spears	75	414	05/30/95
	.	5,752,929	05/19/98	Klatz et al.	604	51	06/07/95
	.	5,766,490	06/16/98	Taylor et al.	210	758	01/24/96
	.	5,797,874	08/25/98	Spears	604	53	06/05/95
	.	5,797,876	08/25/98	Spears et al.	604	95	11/27/95
	.	5,814,222	09/29/98	Zelenák et al.	210	615	03/31/95
	.	5,834,519	11/10/98	Spears	514	938	10/11/96
	.	5,843,307	12/01/98	Faivre et al.	210	192	01/26/95
	.	5,849,191	12/15/98	Agranonik et al.	210	608	11/22/95
	.	5,874,093	02/23/99	Eliasz et al.	424	401	11/15/96
	.	5,879,282	03/09/99	Fischell et al.	600	3	01/21/97
	.	5,885,467	03/23/99	Zelenák et al.	210	758	11/24/97
	!	5,893,838	04/13/99	Daoud et al.	604	26	08/15/97
	.	5,922,305	07/13/99	Spears	424	43	07/08/97
	.	5,957,899	09/28/99	Spears et al.	604	264	06/24/96
JB	.	5,958,377	09/28/99	Spears	424	43	07/08/97
	.	5,976,119	11/02/99	Spears et al.	604	508	08/21/98

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FOREIGN PATENT DOCUMENTS

EXAM. INT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION
85	.	WO 92/14404	09/03/92	PCT	A61B	6/00	Yes
	.	WO 92/14976	09/03/92	PCT	F25B	19/00	Yes
	.	WO 95/13843	05/26/95	PCT	A61M	37/00	Yes
	.	WO 96/01593	01/25/96	PCT	A61B	19/00	Yes
	.	WO 96/17565	06/13/96	PCT	A61F	5/00	Yes
	.	WO 96/40334	12/19/96	PCT	A61M	15/00	Yes
	.	WO 96/41987	12/27/96	PCT	F17C		Yes
	.	WO 97/19713	06/05/97	PCT	A61M		Yes
	.	WO 97/49447	12/31/97	PCT	A61M	25/00	Yes
	.	WO 98/16203	04/23/98	PCT	A61K	9/133	Yes
	.	WO 98/46340	10/22/98	PCT	B01F		Yes
85	.	WO 99/08732	02/25/99	PCT	A61M	1/32	Yes
85	.	WO 99/08733	02/25/99	PCT	A61M	1/36	Yes

OTHER ART

(Author, Title, Journal, Volume, Pertinent Pages, & Date)

85	.	Padmavathy Guttikonda et al., "Effect of Topical O2-Supersaturated Normal Saline on UV Light-Induced Mouse Ear Inflammation," SSID Dermatology Session Abstract, Vol. 44, No. 1, p. 51A, January 1996.
	.	B. Kantor et al., "Coronary Reperfusion with Aqueous Oxygen Improves Left Ventricular Ejection Fraction and May Reduce Mortality in an Ischemic Porcine Model," (Abstracts/Poster TCT-231), Amer. J. Cardiology, p. 86S, October 8, 1998.
	.	S. C. Davis et al., "Delivery of Oxygen to Cutaneous Tissue Via a Super Saturated Oxygen (SOS) Emulsion," Journal of Investigative Dermatology, Vol. 112, No. 4, pg. 632, April 1999.
	.	N.M. Yusof et al., "Assessment of the Safety and Efficacy of Supersaturated Oxygen Solution: A Novel Method of Reducing Myocardial Ischaemia in PTCA," (Abstracts/Poster TCT-276), Amer. J. Cardiology, p. 100S, October 8, 1998.
	.	John Metschl, "The Supersaturation of Gases in Water and Certain Organic Liquids," Vol. 28, pgs. 417-437, 1924.
	.	Frank B. Kenrick et al., "Supersaturation of Gases in Liquids," J. Phys. Chem., Vol. 28, pgs. 1308-1315, 1924.
85	.	Robert B. Dean, "The Formation of Bubbles," Journal of Applied Physics, Volume 15, pgs. 446-451, May, 1944.

(Author, Title, Journal, Volume, Pertinent Pages, & Date)		
B		C. Boe et al., "Use of Hyperbaric Oxygen as Oxygen Source in Extracorporeal Oxygenation of Blood," Physiological and Clinical Aspects of Oxygenator Design, Elsevier North-Holland Biomedical Press, Luxembourg, 1976.
	\	Pieter Stroev et al., "Supersaturated fluorocarbon as an oxygen source," Physiological and Clinical Aspects of Oxygenator Design, Elsevier North-Holland Biomedical Press, pgs. 129-139, Luxembourg, 1976.
		Edvard A. Hemmingsen, "Cavitation in gas-supersaturated solutions," Journal of Applied Physics, Vol. 46, No. 1, pgs. 213-218, January 1976.
		Wayne A. Gerth et al., "Gas Supersaturation Thresholds for Spontaneous Cavitation in Water with Gas Equilibration Pressures up to 570 atm1," Z. Naturforsch, 31a, pgs.1711-1716, October 5, 1976.
		Edvard A. Hemmingsen, "Effects of Surfactants and Electrolytes on the Nucleation of Bubbles in Gas-Supersaturated Solutions," Z. Naturforsch, 33a, pgs. 164-171, October 25, 1977.
		Yehuda Finkelstein et al., "Formation of Gas Bubbles in Supersaturated Solutions of Gases in Water," AIChE Journal, Vol. 13, No. 9, pgs. 1409-1419, September, 1985.
		Mordecai B. Rubin et al., "Measurements of Critical Supersaturation for Homogeneous Nucleation of Bubbles," American Chemical Society, December 9, 1986.
	/	"Fluosol® 20% Intravascular Perfluorochemical Emulsion Product Information," Alpha Therapeutic Corporation, Los Angeles, California, pgs. 1-8, December 1989.
		J. Richard Spears et al., "Potential Intravascular Oxygenation with Oxygen Clathrate Hydrate," (Abstract 388), Abstracts From the 65 th Scientific Sessions, Circulation, Vol. 80, Suppl. I, pg. I-97, 1992.
		Brian A. Cason, et al., "Effects of High Arterial Oxygen Tension on Function, Blood Flow Distribution, and Metabolism in Ischemic Myocardium," Circulation, Vol. 85, No. 2, pgs. 828-838, February 1992.
		Taijiro Sueda et al., "Evaluation of Two New Liquid-Liquid Oxygenators," ASAIO Journal, pgs. 923-928, 1993.
		Brian A. Cason et al., "Therapeutic Hyperoxia Diminishes Myocardial Stunning," J Card Surg, pgs. 459-464, 1994.
		J. Richard Spears et al., "Myocardial Protection With a Perfusion Guidewire During Balloon Angioplasty in a Canine Model," (Abstracts/Poster 1032-30), JACC, Vol. 27, Suppl. A, pg. 392A, February 1996.
	/	J. Richard Spears, "Advances in the Management of Respiratory Failure - Aqueous Preparations of Oxygen," American Society for Artificial Internal Organs, Inc., Vol. 42, No. 3, May-June, 1996.
	/	J. Richard Spears et al., "Hyperoxemic Perfusion with Aqueous Oxygen Improves LV Function During Experimental MI-Reperfusion," (Abstract 2038), Circulation, Vol. 96, Abstracts from the 70 th Scientific Sessions, Supplement I, pgs. I-364-I-365, 1997.
	/	Richard Maas et al., "Superoxygenation Process Treats Highly Concentrated Wastewaters," WATER/Engineering & Management, pgs. 29-33, 39, February 1997.
	\	J.R. Spears et al., "Intraaortic Infusion of Oxygen in a Rabbit Model," (Abstracts/Poster 1014-155), JACC, Vol. 29, Suppl. A, pgs. 317A-318A, February 1997.
	^	Adrian H. Shandling et al., "Hyperbaric oxygen and thrombolysis in myocardial infarction: The "HOT MI" Pilot Study," American Heart Journal, Vol. 134, No. 3, pgs. 544-550, September 1997.

(Author, Title, Journal, Volume, Pertinent Pages, & Date)		
83		J. Richard Spears et al. "Aqueous Oxygen: A Highly O ₂ -Supersaturated Infusate for Hyperoxemic Treatment of Postischemic Myocardium, (Abstract/Poster TCT-262), The American Journal of Cardiology, September 1997.
		J. Richard Spears et al., "Aqueous Oxygen - A Highly O ₂ -Supersaturated Infusate for Regional Correction of Hypoxemia and Production of Hyperoxemia," Circulation, Vol. 96, No. 12, pgs. 4385-4391, December 16, 1997.
		G.J. Brereton et al., "Nucleation in small capillary tubes," Chemical Physics 230, pgs. 253-265, 1998.
		J.R. Spears et al., "Hyperoxemic Reperfusion With Aqueous Oxygen Improves Left Ventricular Function and Microvascular Flow in the Postischemic Canine Myocardium," (Abstract 1185-127), JACC, Vol. 31 (Suppl. A) pg. 449A, February 1998.
		Cassandra Henney et al., "Post MI Aqueous Oxygen Hyperoxemic Coronary Reperfusion Acutely Improves Canine LV Function Compared to Normoxemic Reperfusion," (Abstracts/Poster TCT-277), Amer. J. Cardiology, p. 100S, October 8, 1998.
		J. Richard Spears et al., "Subselective Intracoronary Aqueous Oxygen Hyperoxemic Reperfusion After One Hour Coronary Occlusion in Swine Restores Left Ventricular Function," (Abstracts/Poster 1124-165), JACC, Vol. 33, Suppl. A, pg. 357A, February 1999.
		Product Monograph, Fluosol® 20% Intravascular Perfluorochemical Emulsion, "Delivers Oxygen to Protect the Heart During PTCA," Alpha Therapeutic Corporation, pgs. 3-30.
		E. Newton Harvey et al., "Bubble Formation In Animals," J. Cell. Comp. Physiol., Vol. 24, pgs. 23-34.

EXAMINER

Bianco


DATE CONSIDERED

05 April 2002 / 10/19/02 JLB

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement--PTO-1449 (Modified)

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Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	ATTY. DOCKET NO. PA060-US	SERIAL NO. 09/468,471
	RECEIVED JUN 20 2001 TECHNOLOGY CENTER R3700	
	APPLICANT Divino, Jr. et al.	FILING DATE December 21, 1999

U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
SUB	✓	4,239,729	12/16/80	Hasegawa et al.	422	48	
	✓	4,297,318	10/24/86	Raible	422	46	
	✓	4,735,750	04/05/88	Damann	261	29	
	✓	4,804,358	02/14/89	Karcher et al.	600	17	
	✓	4,917,667	04/17/90	Jackson	604	96	
	✓	5,380,307	01/10/95	Chee et al.	604	264	
	✓	5,382,407	01/17/95	Leonard	42	48	
	✓	5,573,505	11/12/96	Johnson et al.	604	56	
	✓	5,888,611	03/30/99	Leonard	428	113	
	✓	6,030,357	02/29/00	Daoud et al.	604	26	
	✓	6,123,698	09/26/00	Spears et al.	604	523	
	✓	6,142,971	11/07/00	Daoud et al.	604	23	
	✓	6,169,117	01/02/01	Spears	514	37	
	✓	6,180,059	01/30/01	Divino, Jr. et al.	422	45	
	✓	6,197,279	03/06/01	Spears	424	43	
SUB	✓	6,235,007	05/22/01	Divino, Jr. et al.	604	264	
	✓	6,238,645	05/29/01	Spears	424	43	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION
	✓	GB 1,506,555	04/05/78	Great Britain	A61M	1/03	English

OTHER ART

EXAM. INIT.	REF. DES.	AUTHOR, TITLE, JOURNAL, VOLUME, PERTINENT PAGES, DATE
SUB	✓	US Appl. No. 08/581,019 filed 01/03/1996, Spears, "Stabilized Gas-Enriched and Gas-Supersaturated Liquids"
	✓	US Appl. No. 08/915,532 filed 08/15/1997, Spears et al., "Method for Generalized Extracorporeal Support"
	✓	US Appl. No. 09/122,438 filed 07/24/1998, Divino, Jr. et al., "Apparatus for the Preparation and Delivery of Gas-Supersaturated Fluids"
	✓	US Appl. No. 09/312,181 filed 05/14/1999, Buhr et al., "Apparatus and Method for High Pressure Fluid Filtration"

EXAMINER <i>Albiana</i>	DATE CONSIDERED <i>19 October 2001</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.